

Officers of Show

H. M. Turner,	-	-	-	General Manager
C. H. Reeder,	-	-	-	Engineer
H. H. Reeves,	-	-	-	Advertising Manager
Joe Chinlund,	-	-	-	Business Manager
H. A. Moore,	-	-	-	Assistant Engineer
W. J. Putnam,	-	-	-	Assistant Engineer
W. E. East,	-	-	-	Assistant Advertising Manager



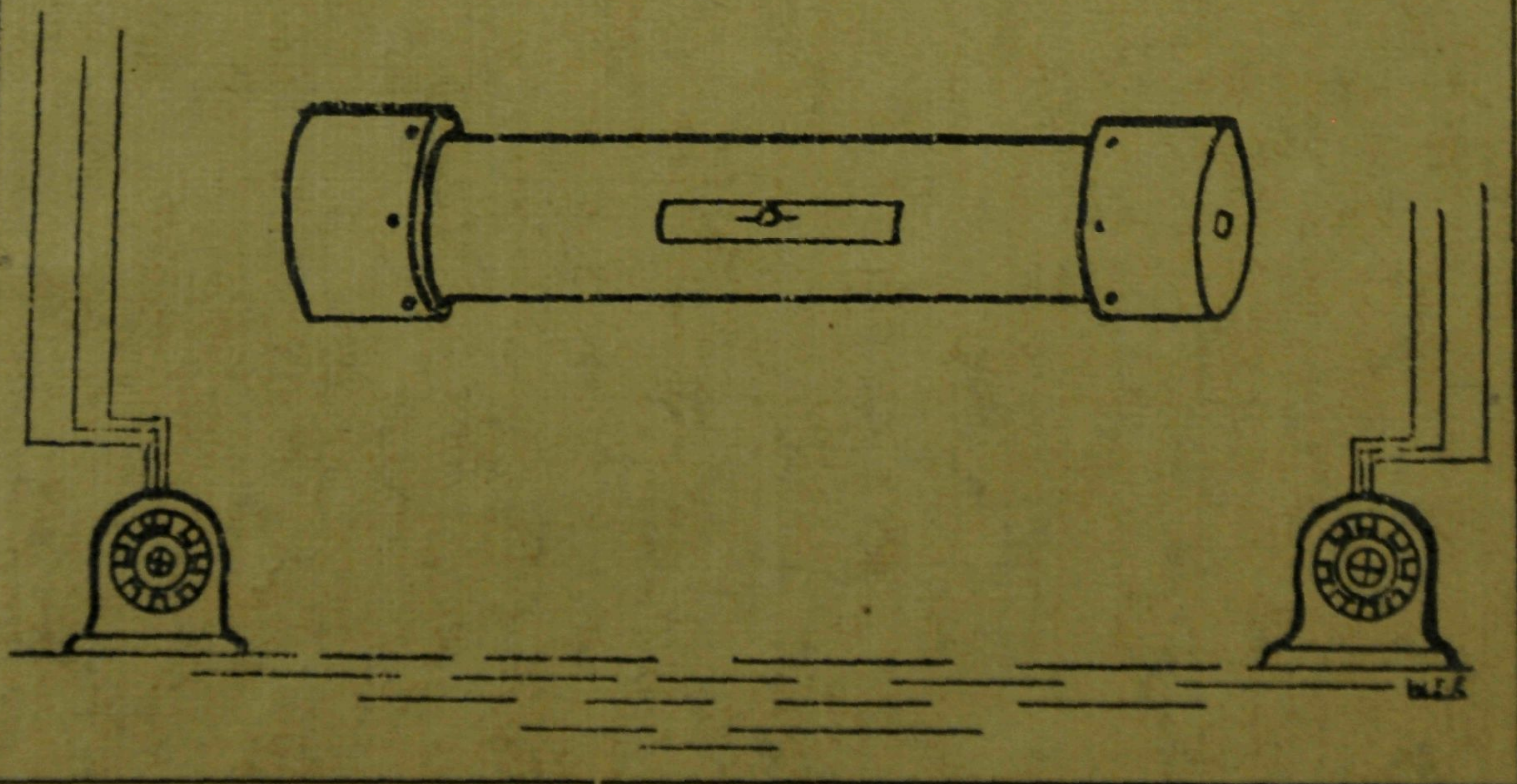
Third Annual

Electrical Show

University of Illinois

Electrical Building

February 10, 11 and 12, 1910



PROGRAM

Visitors will please follow the program as closely as possible. As the space is limited it is only by cooperation with the management in this respect that a jam can be avoided and the full benefit of the show be obtained.

FIRST FLOOR

1. Free check room to left of entrance. Leave your wraps here.

2. **Calibration Laboratory.** (Opposite check room).

A. High Frequency Exhibit.

A frequency of 50,000 cycles per second will be available and at this high frequency thousands of volts may be handled with impunity. Lamps will be lighted by passing the current thru the body and vacuum tubes made to glow.

I. W. Fiske and T. P. Willerton.

B. Static Machine.

Demonstration of the advantages of lightening rods. The static motor is run by the lightening discharge. Evans.

C. Julius Suspension Galvanometer.

Mirror is at the center of gyration, consequently vibrations in the building have no effect upon the accuracy of the readings.

D. Welding transformer.

A. R. Anderson.

E. Ultra Violet Rays.

The high frequency of ultra violet rays make them imperceptible to the eye but their effect is shown by various chemicals. These rays effect photographic plates which proves that they are light waves. They will not pass thru ordinary glass.

A. B. Gates.

3. **Battery Room**

A. Electric Furnace.

B. Batteries.

This battery has a capacity of 240 ampere hours.

4. **High Tension Room** (Opposite Battery Room)

A. Corona Sign.

B. Breaking Down of Insulators.

J. D. Stirling and G. H. Myrick.

SECOND FLOOR

Turning to your right as you leave the stairway you enter the main room. (Turn to your left).

5. **Electric Pianos**

- A. Ordinary Commercial Electric Pianos.
- B. This piano was designed and constructed by students.

H. H. Coe.

6. **Vacuum Cleaners**

Different designs of Vacuum Cleaners will be shown in operation.

A. H. Parks

7. **Lifting Magnets**

Note the power of magnetism in a small piece of iron.

8. **Monorail**

- A. Single gyroscope car.
- B. Double gyroscope car.

E. S. Haigh

9. **Human Resistance**

Please have your resistance measured, as this is a scientific experiment, the results of which will be used by the department.

Keane Richards

10. **Slip Motor**

O. E. Shirley

11. **Perpetual Motion Machine**

The fake which created so much excitement at the last show will be fully explained

P. W. Gumaer

An apple for the taking.

C. H. Bunn

12. **Heating and Cooking**

13. **General Display of Electrical Apparatus**

- A. Intercommunicating telephone set.
- B. Wireless telephone—two complete stations.
- C. Collins-Sanchez High Frequency Apparatus.
- D. Fan Display.
- E. B. G. H. Constant Temperature Thermostatic Relay.

14. **Shocking Machines**

Test your susceptibility to the frequency of an alternating current. 25, 60, 133 cycles

I. W. McDowell

15. **Nursery**

- A. Baby Spanker.
- B. Baby Jumper.
- C. Rocking Cradle.

16. **Electric Cannon**

The United States calls forth the mighty powers of Niagara for coast defense.

R. E. Cullings

17. **Electrical Instruments**
All types shown. Brown
 18. **Electro Plating**
Nickle and Copper Plating. D. R. Palmquist
 19. **Blue Prints of the Show**
 20. **Faraday Generator** Kromer
 21. **Advantages of Electricity in the Morning**
 22. **Substation**
Changes alternating current to direct or vice versa.
 23. **Mercury Vapor Arc**
Changes alternating current to direct.
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THIRD FLOOR

24. **Magneto Telephone Exchange** (To right)
25. **Lighting Exhibit**
 - A. Carbon Filament Lamps.
 - B. Metallized Carbon Filament Lamps.
 - C. Tantalum Filament Lamps.
 - D. Tungsten Filament Lamps.
 - E. Mercury Vapor Arc.
 - F. Flaming Arc.
 - G. Interurban Arc.
 - H. Series Magneto Arc.
 - I. Nernst Lamp.
 - K. Battery Lamps.
 - L. Arrangement to show colors of the lights from different lamps and their effects on different colored fabrics. Cost of lamp, cost of operation, etc. T. H. Amrine
26. **Transmission of Intelligence**
 - A. Magneto Telephone System.
Everybody will be given a chance to play central.
 - B. Central Energy Telephone System. Foersterling and Munch
 - C. Automatic Telephone System. Hench and Hann
 - D. Speaking Arc. D. A. Pierce and E. H. Bailey
 - E. Wireless Telegraph. B. C. Wheatlake and R. M. Spurr

27. **Display of Physics Apparatus**

- A. Static Electric Apparatus.
- B. Static Motor.
- C. X Ray tubes.
- D. Resonance coils.
- E. Geissler tubes.
- F. Magnetic Pendulum.
- G. Mercury Still.

28. **Freak Room**

House of a thousand Sensations

See yourself as others see you.

29. **Thordarson Transformer**

H. S. Thayer

- B. Integrating Wattmeter.

Learn how to read your electric meter.

F. A. Robbins

Sit down and get rested for supper.

30. **Electric Kitchen**

- A. Chafing Dishes.
- B. Toasters.
- C. Corn Poppers.
- D. Hot Water Cup.
- E. Cooking and Baking Outfit.
- F. Water Heaters.
- G. Tea Kettle.
- H. Coffee Percolator
- I. Electric Stoves.

The use of these appliances will be demonstrated by good things to eat

Return to the check room and get your wraps. Again ascending the stairs part way, enter the University power plant.

31. **Power Plant**

- A. Automatic Telephone Exchange.
- B. Engines and Dynamos which furnish light and power for the University.

32. **Test Car** (pass out of north door of power plant)

Opportunity will be given for running an electric car.

GOOD NIGHT

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